

(PCT Article 36 and Rule 70)

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/015727

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-4 _____ as originally filed/furnished
- pages* 5-10 _____ received by this Authority on 31.05.2005
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. _____ as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* 2, 3, 5 _____ received by this Authority on 31.05.2005
- nos.* _____ received by this Authority on _____
- ☒ the drawings:
- sheets Fig. 2-4 _____ as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☒ The amendments have resulted in the cancellation of:
- ☒ the description, pages 11 _____
- ☒ the claims, nos. 1, 4 _____
- ☒ the drawings, sheets/figs 1 _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Fig.	Novelty (N)	Claims <u>2, 3, 5</u>	YES
		Claims _____	NO
	Inventive step (IS)	Claims _____	YES
		Claims <u>2, 3, 5</u>	NO
	Industrial applicability (IA)	Claims <u>2, 3, 5</u>	YES
		Claims _____	NO
2. Citations and explanations (Rule 70.7)			
<p>Document 1: JP 4-86371 A (Yamaha Motor Co., Ltd.), 18 March 1992, entire text; all drawings</p> <p>Document 2: JP 11-294302 A (Yamaha Motor Co., Ltd.), 26 October 1999, paragraph [0030]; fig. 5 and 8 & EP 0945611 A2, paragraph [0060], fig. 5, 8, 15, 22, 26 and 30</p> <p>Document 3: JP 2002-202030 A (NOK Corporation), 19 July 2002, paragraphs [0026] and [0027]; fig. 1 & US 2003/0178784 A1, paragraphs [0045] and [0046]; fig. 1 & EP 1326022 A1 & WO 2002/031354 A1 & AU 9424701 A</p> <p>Document 4: JP 2002-364494 A (Toyota Motor Corporation, NOK Corporation, Denso Corporation), 18 December 2002, paragraph [0028]; fig. 1</p> <p>Document 5: JP 2002-81548 A (Honda Motor Co., Ltd.), 22 March 2002, paragraph [0013]; fig. 1</p> <p>Document 6: JP 2002-257239 A (Toyota Motor Corporation, NOK Corporation, NOK Vibracoustic Corporation), 11 September 2002, entire text; all drawings</p> <p>The invention set forth in claim 2 does not involve an inventive step in the light of documents 1 and 2 cited</p>			

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

in the international search report and newly cited documents 3 to 5. It would be easy for a person skilled in the art to apply the known feature set forth in documents 3 to 5, wherein the seal rings of combustion gas seals for fuel injection valves comprise heat-resistant members made from resin, to a combustion gas seal for fuel injection valves having all of a plurality of annular grooves provided on the outer peripheral surface of a fuel injection valve provided with seal rings having approximately the same outer diameter dimensions, as set forth in documents 1 and 2.

The invention set forth in claims 3 and 5 does not involve an inventive step in the light of documents 1 to 5 and document 6 cited in the international search report. It would not be particularly difficult for a person skilled in the art to add the feature set forth in document 6, wherein a seal washer having a metal ring and a rubber flexible member fixed to said metal ring by baking is held in place by the housing and fuel injection valve, to the combustion gas seal for fuel injection valves set forth in documents 1 to 5.

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Box No. VI

Certain documents cited

1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2004-239124 A	26.08.2004	05.02.2003	
[E, X]			

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
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